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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Occurrence		09/679,210	GORDON ET AL.			
	Office Action Summary	Examiner	Art Unit			
		ANNAN Q. SHANG	2424			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[\	Responsive to communication(s) filed on <u>08 Oc</u>	etoher 2009				
·	This action is FINAL . 2b) ☐ This action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥/١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	·	pa	3 3.3.2.3.			
Dispositi	on of Claims					
4)🛛	☑ Claim(s) <u>1-18 and 20-23</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1-18 and 20-23</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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DETAILED ACTION

Claim Objections

1. Claims 1-18 and 20-23 are objected to because of the following informalities: Various claim limitations reads "...interactive program guide (IPQ)...," "...IPQ pages..." It appears the phrase should read "...interactive program guide (IPG)...," "...IPG pages..." as was previously recited in the last amendment (02/03/09) and furthermore to conform to the specification. Appropriate correction is required.

Response to Arguments

2. Applicant's arguments/amendments with respect to claims 1-18 and 20-23 have been considered but are moot in view of the new ground(s) of rejection discussed below.

With respect to the rejection of the last office action, Applicant amends claims and further argues that the prior arts of record do not teach the amended claims limitations. i.e., "Eyer does not receiving a plurality of IPQ pages, audio input and data, wherein each plurality of IPQ pages include a guide portion and a video portion..." that "....does not discloses generating a plurality of guide streams and at least one of a video stream, an audio stream and data stream, wherein each generated stream is assigned a respective packet identifier (PID)..." that "....fails to even mention generating a plurality of guide streams and at least one of a video stream, an audio..." etc., (see page 10+ of Applicant's Remarks).

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In response, Examiner disagrees. Examiner notes Applicant's amendments/arguments, however, Eyer clearly discloses that the IPG data receive at Satellite Uplink 100 (fig.1) includes global data is global services and local services or programming broadcast by satellite and national CATV networks and channel map and other configuration data (see inputs (3) of fig.1 to Uplink 100. col.1, lines 10-20, line 64-col.2, line 37, col.3, lines 9-17, line 62-col.5, line 1+ and line 44-col.6, line 1+). Eyer further discloses that "The satellite MUX, modulator and encoder 100 also receives all or, typically, portion of the global programming services themselves (e.g., digital audio and video) as well as channel map data for both global and local programming services and other configuration data, discussed in greater detail in connection with FIG. 2." (col.6, lines 1-12). Eyer further meets other amended claims limitations, i.e., "...a session manager..." and "...a bandwidth manager..." (col.1, lines 42-45, col.7, line 66-col.8, line 1+ and col.21, line 66-col.22, line 16) as discussed clearly below. Hence the amended claims do not overcome the prior arts of record. The amendment to the claims necessitated the new ground(s) of rejection discussed below. This office action is made final.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

. 4. Claims 1-15 and 18-23, are rejected under 35 U.S.C. 103(a) as being unpatentable over **Eyer et al (6,401,242)** in view of **Robinett et al (6831892)** and further in view of **Hendricks et al (6,463,585)**.

As to claim 1, note the **Eyer et al** reference figure 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data, to Integrated Receiver Decoders (IRDs) in a decoder population and further disclose a system for providing IPG, comprising:

A plurality of encoding units (Encoders 1-N or 220-230) each operative to encode a plurality of IPG pages (Global + Local), audio input and data input, where each of the plurality of IPG pages include guide portion and video portion, and generate a plurality of guide streams and at least one of a video stream, au audio stream and data stream (figs.1 and 2, col.1, lines 10-20, line 64-col.2, line 37, col.3, lines 9-17, line 62-col.5, line 1+, line 44-col.6, line 1+ and col. 8, lines 16-32), which are operative to encode National or Global-IPG data and Regional or Local-IPG data "a plurality of IPG pages" and generate bundles of IPG data and Audio/Video (A/V) data "a plurality of streams," where bundles of IPG data and A/V data is assigned a respective packet identifier (PID) (col. 10, lines 55-65 and col. 15, lines 54-63); note also col. 5, line 62-col. 6, line 12 and col. 7, lines 9-26 of Eyer et al (5,801,753) which is incorporate by reference);

At least one transport stream generator (MUX/MOD 250 of Uplink 100 or MUX/MOD of CATV 140 for each Region) operatively coupled to the plurality of encoding units and assigned to a distribution node, each transport generator operative

to receive the generated streams from one or more of the plurality of encoding units and multiplexing packets from the received streams into one or more transport streams (figs.1 and 2, col.1, lines 10-20, line 64-col.2, line 37, col.3, lines 9-17, line 62-col.5, line 1+, line 44-col.6, line 1+, col. 8, lines 16-32 and col. 8, lines 29-32), note that Eyer clearly shows Uplink 100 and a plurality of CATV 140 each with network ID (col.9, lines 1-23) within CATV networks 150 for each neighbor or region, each with MUX, MODULATOR and ENCONDER and receiving global and local programming services from satellite and other networks (telephone, computer, etc.) and MUX/MOD the streams accordingly. The MPEG-2 Encoders 1-N, the MUX/MOD operative to receive the multiplex selected ones of the bundles of IPG data and A/V data from one or more MPEG-2 Encoders 1-N into one or more transport streams; and

A session manager (IPG Translator 220/Subscriber Authorization Center (SAC) 240) coupled to the at least one transport stream generator and the plurality of encoding units, the session manager being operator to manage the operation of the plurality of encoding units and the at least one transport stream generator and to service demands of the distribution nodes (col.1, line 64-col.2, line 48, col.3, lines 9-17, line 62-col.5, line 1+, line 44-col.6, line 52, col. 8, lines 16-32 and col. 8, lines 29-32, col. 6, lines 13-19 and col. 8, lines 6-28), note that each MUX/MOD generate bundles of IPG data and A/V data "one or more transport streams" based on interest, regional area or geographical area and furthermore according to a tiered marketing scheme;

A bandwidth manager (IPG Translator 220/Subscriber Authorization Center (SAC) 240), coupled to the at least one transport stream generator for monitoring

resources and bandwidth availability for encoding units, the bandwidth manager, in response to a demand from the distribution node, obtains information regarding available bandwidth and the various data bundles and associated IDs (PIDs, etc.) and **modifies these parameters for** transporting in the one or more transport streams being transmitted to the distribution node to service the demand and communicates the obtained information to the session manager for servicing the demand (line 20 and col.10, line 38-col.11, col.col.21, line 66-col.22, line 16), note that IPG Translator 220 receives configuration data, parameters such as time slot size, output bit rate, etc. and bundles and schedules data based on bandwidth availability and rate control.

Eyer does not clearly teach obtains information regarding whether sufficient bandwidth and PIDs are available in the one or more transport streams being transmitted to the distribution node to service the demand and communicates the obtained information to the session manager for servicing the demand

However, in the same field of endeavor, **Robinett** discloses bandwidth optimization of video program bearing transport streams and further discloses obtains information regarding whether sufficient bandwidth and PIDs are available in the one or more transport streams being transmitted to the distribution node/user(s) to service the demand(s) to nodes/user(s) (figs.1-2, col.6, lines 8-27, col.12, line 21-col.13, line 17, col.31, lines 5-26 and col.32, line 4-col.33, line 67).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Robinett into the system of Eyer to

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efficiently modify data and multiplexed data accordingly over the available communication bandwidth or network.

Eyer as modified by Robinett do not clearly teach, monitoring resources usage and availability for encoding by the encoders

However, note the **Hendricks et al** reference figures 1, 19-22, disclose targeting advertisement using television delivery system, where an Operation Center (OC) 202 and a Headend 208 and its Network Controller 214 (col. 13, lines 8-27 and col. 14, lines 12-26), generates group assignment plan and assigns television terminals to group, monitoring resources usage and availability and dynamically generating customizes menus on the fly based on these parameters (fig. 17, col. 16, lines 55-67, col. 19, lines 49-62, col. 20, lines 10-18, lines 36-40 and col. 55, line 64-col. 56, line 14).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Hendricks into the system of Eyer as modified by Robinett to efficiently generate menus based on available resources to meet desired requested data.

As to claim 2, the claimed "a bandwidth manager..." is met by IPG Translator 220 and SAC 240 (col. 6, lines 13-19 and col. 8, lines 6-28), which is coupled to MUX/MOD 250 and operative to direct each MUX/MOD 250 to generate bundles of IPG data and A/V data "one or more transport streams" based on interest, regional area or geographical area, assigning IDs and different rates (col. 17, line 49-col. 18, line 7) for the bundles and using various parameters for delivering of bundles to meet the available bandwidth, for transmission via Transmitter 110 (col. 21, line 66-col. 22, line

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7), but fails to explicitly teach monitoring usage of IPG data and reporting to the Headend.

However, **Hendricks**, teaches Headend Controller 214, which monitors usage of IPG menus, reports to OC 202 or HE 208, and generates menus on the fly based on usage to the user(s) (fig. 17, col. 16, lines 55-67, col. 19, lines 49-62 and col. 55, line 64-col. 56, line 14).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Hendricks into the system of Eyer to monitor the IPG menu usage at the terminals and dynamic modify the IPG menus based on the usage and on-demand interactive program guide to meet the users' request, and further provide user-friendly menus, which enables the user to navigate through as desired, to retrieve programs.

As to claim 3, Eyer further discloses where the plurality of MPEG-2 Encoders 220-230 are operative to encode only once each IPG page to be transmitted from the least MUX/MOD 250 (col. 6, lines 13-19 and col. 8, lines 6-32).

As to claims 4 and 5, Eyer fails to explicitly teach dynamically adjusting based on demands from a neighborhood being served by the transport stream generator.

However, **Hendricks** further teaches dynamically adjusting Headend Modulators based on demands from a geographical region being served by the transport stream generator or Modulator (col. 19, lines 49-62 and col. 55, line 64-col. 56, line 14).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Hendricks into the system of Eyer to

dynamically adjust based on demands to better provide the needed services to the users.

As to claims 5-8, Eyer fails to explicitly teach where the IPG Translator 220 and SAC 240 "session manager" in response to the information communicated by the bandwidth manager, directs a particular transport stream generator to generate an additional transport stream when the information indicates a required number of PIDs exceeds the capacity of currently transmitted transport stream(s), if the number of streams to transmitted by the particular transport stream generator exceeds the capacity of currently transmitted stream(s), if a required number of PIDs exceeds a maximum number of PIDs supported by the current transmitted transport stream(s) and tear down a transport stream if usage falls below the capacity of remaining transport streams.

However, **Hendricks** further teaches an operation center (OC) 202, in communication with a plurality of Headend Controllers (HC) 214 of Headend 208, and Headend(s) 208 monitors the interactivities "usage" of various Set-top Terminals 220 located in different geographical areas or regions, and dynamically instructs the appropriate modulators or transport streams generators and allocates bandwidth as demand increases, decreases, etc., (col. 19, lines 49-62 and col. 55, line 64-col. 56, line 14), which meets the claimed "directs a particular transport stream generator to generate an additional transport stream as usage increases and exceeds the capacity of currently transmitted transport stream(s), if the number of streams to transmitted by the particular transport stream generator exceeds the capacity of currently transmitted stream(s), if a required number of PIDs exceeds a maximum number of PIDs supported

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by the current transmitted transport stream(s) and tear down a transport stream if usage falls below the capacity of remaining transport streams."

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Hendricks into the system of Eyer to dynamically adjust bandwidth based on demands to better provide the needed services to the users.

As to claim 9, Eyer further discloses each MUX/MOD 250 "TS generator" is operative to serve a respective group of terminals within a particular neighborhood (col. 3, lines 18-35, col. 7, lines 7-15 and col. 22, lines 17-29).

As to claim 10, Eyer further discloses where MUX/MOD 250 is operable to provide differentiated IPG for different regions or geographical areas via the one or more TS generated by the MUX/MOD 250 (col. 10, lines 10-48).

As to claim 11, Eyer further discloses where a plurality of transport streams are generated by a particular MUX/MOD 250, and where each of the plurality of TSs includes a respective set of IPG pages for different regions or geographical areas (col. 10, lines 10-48).

As to claim 12, Eyer further discloses where the plurality of transport streams from the particular transport stream generator, include overlapping sets of IPG pages (col. 7, lines 16-45).

As to claim 13, Eyer further discloses where each the plurality of transport streams from a particular transport stream generator includes one or more common IPG pages (col. 6, lines 1-12 and col. 10, lines 10-38).

As to claim 14, Eyer further disclose where the bundles of Global-IPG and Local-IPG "sets of IPG pages" for the plurality of transport streams from the transport stream generator are organized to reduce likelihood of switching between transport streams at IRDs 130 or 300 (col. 6, lines 1-12 and col. 10, lines 10-38).

As to claim 15, Eyer further discloses where the Global-IPG and Local-IPG pages for the plurality of transport streams from the particular transport stream generator are organized to increase likelihood of PID transitions within the same transport stream (col. 10, lines 10-38).

As to claim 18, the claimed "A system for providing interactive program guide (IPG)..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

As to claim 20, note the **Eyer et al** reference figure 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data, to Integrated Receiver Decoders (IRDs) in a decoder population and further disclose a method for providing IPG from a transmission source to a plurality of terminals, the method comprising:

Receiving a plurality of IPG pages (Uplink 100 or CATV 140), audio input and data input, where each of the plurality of IPG pages include a guide portion and a video portion, generating a plurality of guide streams and at least one of a video stream, an audio stream and a data stream, wherein each generated stream is assigned a respective packet identifier (PID); multiplexing packets from the received streams into one or more transport streams; monitoring the operation of the plurality of encoding

units encoding the plurality of IPG pages, audio input and data input (figs.1 and 2, col.1, lines 10-20, line 64-col.2, line 37, col.3, lines 9-17, line 62-col.5, line 1+, line 44-col.6, line 1+, col. 8, lines 16-32 and col. 8, lines 29-32), note that Eyer clearly shows Uplink 100 and a plurality of CATV 140 each with network ID (col.9, lines 1-23) within CATV networks 150 for each neighbor or region, each with MUX, MODULATOR and ENCONDER and receiving global and local programming services from satellite and other networks (telephone, computer, etc.) and MUX/MOD the streams accordingly. The MPEG-2 Encoders 1-N, the MUX/MOD operative to receive the multiplex selected ones of the bundles of IPG data and A/V data from one or more MPEG-2 Encoders 1-N into one or more transport streams;

Monitoring demands (IPG Translator 220/Subscriber Authorization Center (SAC) 240) from the plurality of terminals; determining a current capacity of one or more transport streams an to determine whether sufficient bandwidth and PIDs are available in the one or more transport streams being transmitted to the plurality of terminals to service the demands; the bandwidth manager, in response to a demand from the distribution node, obtains information regarding available bandwidth and the various data bundles and associated IDs (PIDs, etc.) and modifies these parameters for transporting in the one or more transport streams being transmitted to the distribution node to service the demand and communicates the obtained information to the session manager for servicing the demand (line 20 and col.10, line 38-col.11, col.col.21, line 66-col.22, line 16), note that IPG Translator 220 receives configuration data, parameters

such as time slot size, output bit rate, etc. and bundles and schedules data based on bandwidth availability and rate control.

Eyer does not clearly teach obtains information regarding whether sufficient bandwidth and PIDs are available in the one or more transport streams being transmitted to the distribution node to service the demand and communicates the obtained information to the session manager for servicing the demand

However, in the same field of endeavor, **Robinett** discloses bandwidth optimization of video program bearing transport streams and further discloses obtains information regarding whether sufficient bandwidth and PIDs are available in the one or more transport streams being transmitted to the distribution node/user(s) to service the demand(s) to nodes/user(s) (figs.1-2, col.6, lines 8-27, col.12, line 21-col.13, line 17, col.31, lines 5-26 and col.32, line 4-col.33, line 67).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Robinett into the system of Eyer to efficiently modify data and multiplexed data accordingly over the available communication bandwidth or network.

Eyer as modified by Robinett do not clearly teach, monitoring demands from a plurality of terminals, determining current capacity of one or more transport streams and comparing the demands from the plurality terminals and dynamically adjusting the number of transport streams to be transmitted to the plurality of terminals based on a result of the comparing.

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However, note the **Hendricks et al** reference figures 1 and 19-22, disclose a viewer interface for a television program delivery system and menu generation and menu selection of television programs, where Headend Controller 214, monitors demands from a plurality of terminals and compares the demands from the plurality terminals and based on the result, dynamically generates on the fly menus and adjusts the number of transport streams to be transmitted to the plurality of terminals to meet the demands of the IPG menus based on the interaction to the IPG (fig. 17, col. 16, lines 55-67, col. 19, lines 49-62, col. 20, lines 10-18, lines 36-40 and col. 55, line 64-col. 56, line 14).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Hendricks into the system Eyer as modified by Robinett to monitor the users demands or interaction to provide user-friendly or on-demand interactive program guide to the user, to enable the user to navigate through as desired to retrieve programs.

Claims 21-23, are met as previously discussed with respect to claims 5-8.

5. Claims 16 and 17, are rejected under 35 U.S.C. 103(a) as being unpatentable over Eyer et al (6,401,242) in view of Robinett et al (6831892) and further in view of Hendricks et al (6,463,585) as applied to claims 1 above, and further in view of McLaren (5,867,208).

As to claims 16 and 17, Eyer as modified by Robinett and Hendricks, fail to explicitly teach where the encoding unit, implements slice-based encoding scheme, and picture-based encoding scheme.

However, note the **McLaren** reference figures 1 and 2, discloses an interactive television system, where a Broadcaster Center, includes an Encoder 106, which implements slice encoding and picture encoding scheme to provide video content to subscriber (col. 4, lines 47-67 and col. 11, line 59-col. 12, line 28).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of McLaren into the system of Eyer as modified by Robinett and Hendricks to include slice encoding and picture encoding to allow for scrolling in the picture such that all portions of the picture or IPG can be viewed on the subscriber television.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on 700am-500pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelly** can be reached on **571-272-7331**. The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC) at 866-217-9197 (toll-free).**

/Annan Q Shang/ Primary Examiner, Art Unit 2424

Annan Q. Shang

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